

CONTENTS OF VOLUME 105

NUMBER 1

THE FUNCTION OF DELAYED PLUMAGE MATURATION IN MALE BLACK-HEADED GROSBEAKS. <i>Geoffrey E. Hill</i>	1
EFFECTS OF FOOD SUPPLEMENTATION, SONG PLAYBACK, AND TEMPERATURE ON VOCAL TERRITORIAL BEHAVIOR OF CAROLINA WRENS. <i>Joy G. Strain and Ronald L. Mumme</i>	11
FEEDING-TIME MINIMIZATION AND THE TERRITORIAL BEHAVIOR OF THE WILLOW FLYCATCHER (<i>EMPIDONAX TRAILLII</i>). <i>David R. C. Prescott and Alex L. A. Middleton</i>	17
THE SCLERAL OSSICLES OF <i>OPISTHOCOMUS</i> AND THEIR PHYLOGENETIC SIGNIFICANCE. <i>Kevin de Queiroz and David A. Good</i>	29
A MECHANISM OF SEXUAL SEGREGATION BY HABITAT IN AMERICAN KESTRELS (<i>FALCO SPARVERIUS</i>) WINTERING IN SOUTH-CENTRAL FLORIDA. <i>John A. Smallwood</i>	36
LINEARITY OF GEOGRAPHIC RANGE AND ITS POSSIBLE EFFECT ON THE POPULATION STRUCTURE OF ANDEAN BIRDS. <i>Gary R. Graves</i>	47
VARIATION IN THE COSTS, BENEFITS, AND FREQUENCY OF NEST REUSE BY BARN SWALLOWS (<i>HIRUNDO RUSTICA</i>). <i>Robert M. R. Barclay</i>	53
WHY ARE WAXWINGS "WAXY"? DELAYED PLUMAGE MATURATION IN THE CEDAR WAXWING. <i>D. James Mountjoy and Raleigh J. Robertson</i>	61
ANNUAL REPRODUCTIVE YIELD IN THE COOPERATIVE PYGMY NUTHATCH (<i>SITTA PYGMAEA</i>). <i>William J. Sydeman, Marcel Güntert, and Russell P. Balda</i>	70
ASYNCHRONOUS HATCHING AND FOOD LIMITATION: A TEST OF LACK'S HYPOTHESIS. <i>Susan Knight Skagen</i>	78
DOMINANCE RELATIONSHIPS IN HAREMS OF FEMALE RED-WINGED BLACKBIRDS. <i>Laurel B. Roberts and William A. Searcy</i>	89
THE BEACHED-BIRD ASSEMBLAGE OF A HIGHLY SALINE LAKE AND ITS RELEVANCE FOR RECONSTRUCTING PALEOENVIRONMENTS. <i>Joseph R. Jehl Jr.</i>	97
THE INFLUENCE OF DIET QUALITY ON CLUTCH SIZE AND LAYING PATTERN IN MALLARDS. <i>Jan L. Eldridge and Gary L. Krapu</i>	102
CRANIAL KINESIS IN THE LATE CRETACEOUS BIRDS <i>HESPERORNIS</i> AND <i>PARAHESPERORNIS</i> . <i>Paul Bühler, Larry D. Martin, and Laurence M. Witmer</i>	111
CAVITY ROOSTING, PHILOPATRY, AND COOPERATIVE BREEDING IN THE GREEN WOODHOOPOE MAY REFLECT A PHYSIOLOGICAL TRAIT. <i>J. David Ligon, Cynthia Carey, and Sandra H. Ligon</i>	123
DISPERSAL PATTERNS OF WESTERN GULLS FROM SOUTHEAST FARALLON ISLAND. <i>Larry B. Spear</i>	128
EXPERIMENTAL EVIDENCE FOR SIBLING RECOGNITION IN COMMON TERNS (<i>STERNA HIRUNDO</i>). <i>J. Burger, M. Gochfeld, and W. I. Boorman</i>	142
MALE PARENTAL CARE AND EXTRAPAIR COPULATIONS IN THE INDIGO BUNTING. <i>David F. Westneat</i>	149
INTER- AND INTRASPECIFIC RELATIONSHIPS BETWEEN EGG SIZE AND CLUTCH SIZE IN WATERFOWL. <i>Frank C. Rohwer</i>	161
EVOLUTIONARY GENETICS OF FLYCATCHERS. II. DIFFERENTIATION IN THE <i>EMPIDONAX DIFFICILIS</i> COMPLEX. <i>Ned K. Johnson and Jill A. Marten</i>	177
IN MEMORIAM: DONALD LOUIS BLEITZ. <i>Kenneth E. Stager</i>	192
IN MEMORIAM: JAMES R. KOPLIN. <i>Michael W. Collopy</i>	192
SHORT COMMUNICATIONS	
Testing for Individual Variation in Breeding Success. <i>Scott A. Hatch</i>	193
Observations at a King Vulture (<i>Sarcophagus papa</i>) Nest in Venezuela. <i>Cristina Ramo and Benjamin Busio</i>	195
Estimating Female Settlement from Nesting Data. <i>Kevin L. Teather, Katherine E. Muma, and Patrick J. Weatherhead</i>	196
Clutch-size Dependent Asynchronous Hatching and Brood Reduction in <i>Junco hyemalis</i> . <i>Kimberly G. Smith</i>	200
COMMENTARIES	
Do Kirtland's Warblers Migrate in One Hop? <i>Harold F. Mayfield</i>	204
Bird Migration Terminology. <i>Scott B. Terrill and Kenneth P. Able</i>	205
Spacing Behavior and Population Limitation in Red Grouse. <i>Adam Watson and Robert Moss</i>	207
Growth-curve Analysis: A Critical Reevaluation. <i>Reto Zach</i>	208
BOOK REVIEWS. <i>Edited by M. Ross Lein</i>	211
INFORMATION FOR CONTRIBUTORS TO THE AUK	231
100 YEARS AGO IN THE AUK	69
NOTES AND NEWS	46

CONTENTS OF VOLUME 105

NUMBER 1

THE FUNCTION OF DELAYED PLUMAGE MATURATION IN MALE BLACK-HEADED GROSBREASTS. <i>Geoffrey E. Hill</i>	1
EFFECTS OF FOOD SUPPLEMENTATION, SONG PLAYBACK, AND TEMPERATURE ON VOCAL TERRITORIAL BEHAVIOR OF CAROLINA WRENS. <i>Joy G. Strain and Ronald L. Mumme</i>	11
FEEDING-TIME MINIMIZATION AND THE TERRITORIAL BEHAVIOR OF THE WILLOW FLYCATCHER (<i>EMPIDONAX TRILLII</i>). <i>David R. C. Prescott and Alex L. A. Middleton</i>	17
THE SCLERAL OSSICLES OF <i>OPISTHOCOMUS</i> AND THEIR PHYLOGENETIC SIGNIFICANCE. <i>Kevin de Queiroz and David A. Good</i>	29
A MECHANISM OF SEXUAL SEGREGATION BY HABITAT IN AMERICAN KESTRELS (<i>FALCO SPARVERIUS</i>) WINTERING IN SOUTH-CENTRAL FLORIDA. <i>John A. Smallwood</i>	36
LINEARITY OF GEOGRAPHIC RANGE AND ITS POSSIBLE EFFECT ON THE POPULATION STRUCTURE OF ANDEAN BIRDS. <i>Gary R. Graves</i>	47
VARIATION IN THE COSTS, BENEFITS, AND FREQUENCY OF NEST REUSE BY BARN SWALLOWS (<i>HIRUNDO RUSTICA</i>). <i>Robert M. R. Barclay</i>	53
WHY ARE WAXWINGS "WAXY"? DELAYED PLUMAGE MATURATION IN THE CEDAR WAXWING. <i>D. James Mountjoy and Raleigh J. Robertson</i>	61
ANNUAL REPRODUCTIVE YIELD IN THE COOPERATIVE PYGMY NUTHATCH (<i>SITTA PYGMAEA</i>). <i>William J. Sydeman, Marcel Güntert, and Russell P. Balda</i>	70
ASYNCHRONOUS HATCHING AND FOOD LIMITATION: A TEST OF LACK'S HYPOTHESIS. <i>Susan Knight Skagen</i>	78
DOMINANCE RELATIONSHIPS IN HAREMS OF FEMALE RED-WINGED BLACKBIRDS. <i>Laurel B. Roberts and William A. Searcy</i>	89
THE BEACHED-BIRD ASSEMBLAGE OF A HIGHLY SALINE LAKE AND ITS RELEVANCE FOR RECONSTRUCTING PALEOENVIRONMENTS. <i>Joseph R. Jehl Jr.</i>	97
THE INFLUENCE OF DIET QUALITY ON CLUTCH SIZE AND LAYING PATTERN IN MALLARDS. <i>Jan L. Eldridge and Gary L. Krapu</i>	102
CRANIAL KINESIS IN THE LATE CRETACEOUS BIRDS <i>HESPERORNIS</i> AND <i>PARAHESPERORNIS</i> . <i>Paul Bühler, Larry D. Martin, and Laurence M. Witmer</i>	111
CAVITY ROOSTING, PHILOPATRY, AND COOPERATIVE BREEDING IN THE GREEN WOODHOOPOE MAY REFLECT A PHYSIOLOGICAL TRAIT. <i>J. David Ligon, Cynthia Carey, and Sandra H. Ligon</i>	123
DISPERSAL PATTERNS OF WESTERN GULLS FROM SOUTHEAST FARALLON ISLAND. <i>Larry B. Spear</i>	128
EXPERIMENTAL EVIDENCE FOR SIBLING RECOGNITION IN COMMON TERNS (<i>STERNA HIRUNDO</i>). <i>J. Burger, M. Gochfeld, and W. I. Boorman</i>	142
MALE PARENTAL CARE AND EXTRAPAIR COPULATIONS IN THE INDIGO BUNTING. <i>David F. Westneat</i>	149
INTER- AND INTRASPECIFIC RELATIONSHIPS BETWEEN EGG SIZE AND CLUTCH SIZE IN WATERFOWL. <i>Frank C. Rohwer</i>	161
EVOLUTIONARY GENETICS OF FLYCATCHERS. II. DIFFERENTIATION IN THE <i>EMPIDONAX DIFFICILIS</i> COMPLEX. <i>Ned K. Johnson and Jill A. Marten</i>	177
IN MEMORIAM: DONALD LOUIS BLEITZ. <i>Kenneth E. Stager</i>	192
IN MEMORIAM: JAMES R. KOPLIN. <i>Michael W. Collopy</i>	192
SHORT COMMUNICATIONS	
Testing for Individual Variation in Breeding Success. <i>Scott A. Hatch</i>	193
Observations at a King Vulture (<i>Sarcophagus papa</i>) Nest in Venezuela. <i>Cristina Ramo and Benjamin Busio</i>	195
Estimating Female Settlement from Nesting Data. <i>Kevin L. Teather, Katherine E. Muma, and Patrick J. Weatherhead</i>	196
Clutch-size Dependent Asynchronous Hatching and Brood Reduction in <i>Junco hyemalis</i> . <i>Kimberly G. Smith</i>	200
COMMENTARIES	
Do Kirtland's Warblers Migrate in One Hop? <i>Harold F. Mayfield</i>	204
Bird Migration Terminology. <i>Scott B. Terrill and Kenneth P. Able</i>	205
Spacing Behavior and Population Limitation in Red Grouse. <i>Adam Watson and Robert Moss</i>	207
Growth-curve Analysis: A Critical Reevaluation. <i>Reto Zach</i>	208
BOOK REVIEWS. <i>Edited by M. Ross Lein</i>	211
INFORMATION FOR CONTRIBUTORS TO THE AUK	231
100 YEARS AGO IN THE AUK	69
NOTES AND NEWS	46

NUMBER 2

GENETIC VARIATION IN SYMPATRIC WILLOW FLYCATCHERS (<i>EMPIDONAX TRILLII</i>) AND ALDER FLYCATCHERS (<i>E. ALNORUM</i>). Gilles Seutin and Jean-Pierre Simon	235
TEMPORAL VARIATION IN PREY PREFERENCE PATTERNS OF ADULT OSPREYS. Thomas C. Edwards Jr.	244
EFFECTS OF SPACING AND SYNCHRONY ON BREEDING SUCCESS IN THE GREAT FRIGATEBIRD (<i>FREGATA MINOR</i>). Barry J. Reville	252
GENETIC DIFFERENTIATION OF PIPING PLOVERS ACROSS NORTH AMERICA. Susan M. Haig and Lewis W. Oring	260
MATE, SITE, AND TERRITORY FIDELITY IN PIPING PLOVERS. Susan M. Haig and Lewis W. Oring	268
AGE CORRELATIONS WITHIN PAIRS OF BREEDING BIRDS. Walter V. Reid	278
THE ADVANTAGES OF, AND CONSTRAINTS FORCING, MATE FIDELITY IN PINYON JAYS. John M. Marzluff and Russell P. Balda	286
TROPICAL FOREST BIRD COUNTS AND THE EFFECT OF SOUND ATTENUATION. Robert B. Waide and Peter M. Narins	296
HONEST ADVERTISING, SEXUAL SELECTION, COURTSHIP DISPLAYS, AND BODY CONDITION OF POLYGYNOUS MALE HARRIERS. Robert Simmons	303
INITIAL SIZE HIERARCHY IN BROODS OF THE SHAG: RELATIVE SIGNIFICANCE OF EGG SIZE AND HATCHING ASYNCHRONY. Jøgeir N. Stokland and Trond Amundsen	308
BREEDING SEASON QUALITY, AGE, AND THE EFFECT OF EXPERIENCE ON THE REPRODUCTIVE SUCCESS OF THE URAL OWL (<i>STRIX URALENSIS</i>). Hannu Pietiäinen	316
NESTING SUCCESS IS HIGHER FOR POLYGYNOUSLY MATED FEMALES THAN FOR MONOGAMOUSLY MATED FEMALES IN THE EASTERN MEADOWLARK. Richard W. Knapton	325
TIMING OF REPRODUCTION IN TWO POPULATIONS OF WILLOW PTARMIGAN IN NORTHERN CANADA. Susan J. Hannon, Kathy Martin, and Jim O. Schieck	330
REPRODUCTIVE SUCCESS AND COLONY-SITE TENACITY IN CASPIAN TERNS. Francesca J. Cuthbert	339
OBSERVATIONS OF A MIXED-SPECIES FLOCK OF BIRDS FORAGING ON EUPHAUSIDS NEAR ST. MATTHEW ISLAND, BERING SEA. George L. Hunt Jr., Nancy M. Harrison, William M. Hammer, and Bryan S. Obst	345
HABITAT SELECTION BY BREEDING AMERICAN REDSTARTS IN RESPONSE TO A DOMINANT COMPETITOR, THE LEAST FLYCATCHER. Thomas W. Sherry and Richard T. Holmes	350
IN MEMORIAM: HERBERT FRIEDMANN. Stephen I. Rothstein, Ralph W. Schreiber, and Thomas R. Howell	365
IN MEMORIAM: FRANÇOIS HAVERSCHMIDT. G. F. Mees	368
IN MEMORIAM: ROBERT S. ARBIB JR. C. Stuart Houston	369
SHORT COMMUNICATIONS	
Why White-winged Cross Bills Do Not Defend Feeding Territories. Craig W. Benkman	370
The Relationships among Polygyny, Male Parental Care, and Female Breeding Success in the Indigo Bunting. David Westneat	372
Seasonal Changes in Food Preferences of American Robins in Captivity. Nathaniel T. Wheelwright	374
On the Danger of Using Dummy Nests to Study Predation. Tomas Willebrand and Vidar Marcström	378
Uterovaginal Sperm-storage Glands in Sixteen Species with Comments on Morphological Differences. Gary W. Shugart	379
Effects of Food-handling Time on Scanning Rates among American Goldfinches. James W. Popp	384
Genetic Differentiation Between North American Kinglets and Comparisons with Three Allied Passerines. James L. Ingold, Lee A. Weigt, and Sheldon I. Guttman	386
Rediscovery of the Sooty Rail (<i>Porzana tabuensis</i>) in American Samoa. John Engbring and Andrew Englis Jr.	391
The Relationship between <i>Hyllocichla</i> and <i>Catharus</i> (Turdinae). Kevin Winker and John H. Rappole	392
COMMENTARIES	
Ornithology in Central and South America: Cause for Optimism? David Cameron Duffy	395
Learning to Live with Nature: A Commendable Philosophy with Practical Limitations. H. Blokpoel and G. D. Tessier	396
Response to H. Blokpoel and G. D. Tessier. William E. Southern	398
BOOK REVIEWS. Edited by M. Ross Lein	399
100 YEARS AGO IN THE AUK	277
WILLIAM BREWSTER MEMORIAL AWARD, 1987. Jerram L. Brown	406
ELLIOTT COUES AWARD, 1987. John C. Wingfield	407
NOTES AND NEWS	267, 307, 324, 338, 349

NUMBER 3

A CLASSIFICATION OF THE LIVING BIRDS OF THE WORLD BASED ON DNA-DNA HYBRIDIZATION STUDIES. Charles G. Sibley, Jon E. Ahlquist, and Burt L. Monroe Jr.	409
STATUS SIGNALING IS ABSENT WITHIN AGE-AND-SEX CLASSES OF HARRIS' SPARROWS. Wendy M. Jackson, Sievert Rohwer, and Robin L. Winnegrad	424
COORDINATION OF INCUBATION ROUTINES AND MATE CHOICE IN ADÉLIE PENGUINS (PYGOSCELIS ADELIAE). Lloyd S. Davis	428
NEST-SITE SELECTION AND TEMPORAL PATTERNS IN HABITAT USE OF ROSEATE AND COMMON TERNS. Joanna Burger and Michael Gochfeld	433
SITE FIDELITY AND SURVIVAL DIFFERENCES BETWEEN TWO GROUPS OF NEW WORLD RED KNOTS (CALIDRIS CANUTUS). Brian A. Harrington, John M. Hagan, and Linda E. Leddy	439
FORELIMB JOINT MOBILITY AND THE EVOLUTION OF WING-PROPELLED DIVING IN BIRDS. Robert J. Raikow, Lesley Bicanovsky, and Anthony H. Bledsoe	446
A PARTIAL CLASSIFICATION OF WATERFOWL (ANATIDAE) BASED ON SINGLE-COPY DNA. Cort S. Madsen, Kevin P. McHugh, and Siwo R. de Kloet	452
RADAR AND VISUAL OBSERVATIONS OF AUTUMNAL (SOUTHWARD) SHOREBIRD MIGRATION ON GUAM. Timothy C. Williams and Janet M. Williams	460
EVIDENCE OF FORMER ALLOPATRY OF THE TWO COLOR PHASES OF LESSER SNOW GEESSE (CHEN CAERULESCENS CAERULESCENS). F. Cooke, D. T. Parkin, and R. F. Rockwell	467
NATAL AND BREEDING DISPERSAL IN HOUSE WRENS (TROGLODYTES AEDON). Nancy E. Drilling and Charles F. Thompson	430
EVIDENCE AGAINST OBSERVATIONAL LEARNING IN STORAGE AND RECOVERY OF SEEDS BY BLACK-CAPPED CHICKADEES. Myron Charles Baker, Eric Stone, Ann Eileen Miller Baker, Robert J. Shelden, Patricia Skillicorn, and Mark D. Mantych	492
RED COLOR BANDS REDUCE FLEDGING SUCCESS IN RED-COCKADED WOODPECKERS. John M. Hagan and J. Michael Reed	498
NUCLEAR DNA EVOLUTION AND PHYLOGENY OF THE NEW WORLD NINE-PRIMARIED OSCINES. Anthony H. Bledsoe	504
MOLECULAR GENETIC DIVERGENCE BETWEEN AVIAN SIBLING SPECIES: KING AND CLAPPER RAILS, LONG-BILLED AND SHORT-BILLED DOWITCHERS, BOAT-TAILED AND GREAT-TAILED GRACKLES, AND TUFTED AND BLACK-CRESTED TITMICE. John C. Avise and Robert M. Zink	516
AN EARLY CONDOR-LIKE VULTURE FROM NORTH AMERICA. Steven D. Emslie	529
REPRODUCTIVE SUCCESS OF HAND-REARED VS. PARENT-REARED COCKATIELS (NYPHICUS HOLLANDICUS). S. A. Myers, J. R. Millam, T. E. Roudybush, and C. R. Grau	536
MOLT IN THE ANNUAL CYCLE OF CANVASBACKS. James R. Lovvorn and Jeb A. Barzen	543
ENERGY EXPENDITURE IN REPRODUCTIVE EFFORT OF MALE AND FEMALE KILLDEER (CHARADRIUS VOCIFERUS). Dianne H. Brunton	553
THE STOCHASTIC MODE OF MOLECULAR EVOLUTION: WHAT CONSEQUENCES FOR SYSTEMATIC INVESTIGATIONS? Scott M. Lanyon	565
IN MEMORIAM: SIR CHARLES FLEMING, 1916-1987. John Warham	574
SHORT COMMUNICATIONS	
Evidence of Reproductive Error in Adoption of Nestling Eastern Bluebirds (<i>Sialia sialis</i>). Jonathan H. Plissner and Patricia Adair Gowaty	575
A 3:1 Ratio of Mandible Crossing Direction in White-winged Crossbills. Craig W. Benkman	578
Nestling Transfer in the Northern Shrike (<i>Lanius excubitor</i>). Reuven Yosef and Berry Pinshow	580
Polygyny in the Northern Shrike (<i>Lanius excubitor</i>) in Israel. Reuven Yosef and Berry Pinshow	581
Weather-Dependent Mixed-species Flocking during the Winter. Bert C. Klein	583
Nest Density and Population Size of Magellanic Penguins (<i>Spheniscus magellanicus</i>) at Cabo Dos Bahias, Argentina. Angel Capurro, Esteban Frere, Marcelo Gandini, Patricia Gandini, Tomas Holik, Victoria Lichtschein, and P. Dee Boersma	585
COMMENTARIES	
Progressive Analysis of Avian Vocal Repertoires with Special Reference to the Brown Noddy. Nicholas E. Collias	589
Female Song in Willow Flycatchers. David E. Davis	590
Reply to D. E. Davis. Gilles Seutin	591
EDITORIAL. K. Elizabeth K. Pacala. Alan H. Brush	592
BOOK REVIEWS. Edited by M. Ross Lein	593
100 YEARS AGO IN THE AUK	528
NOTES AND NEWS	423, 466, 479, 491

NUMBER 4

SONG SIMILARITY BETWEEN NEIGHBORING AMERICAN REDSTARTS (<i>SETOPHAGA RUTICILLA</i>): A STATISTICAL ANALYSIS N. L. Shackell, R. E. Lemon, and D. Roff	609
GENETIC AND MORPHOLOGICAL DIFFERENTIATION AND PHYLOGENY IN THE AUSTRALO-PAPUAN SCRUBWRENS (<i>SERICORNIS</i> , <i>ACANTHIZIDAE</i>). Leslie Christidis, Richard Schodde, and Peter R. Baverstock	616
DISTRIBUTION AND DISPERSAL IN THE PIPING PLOVER. Susan M. Haig and Lewis W. Oring	630
BODY-SIZE VARIATION AND FITNESS COMPONENTS IN LESSER SNOW GEESE (<i>CHEN CAERULESCENS</i>). J. Chris Davies, R. F. Rockwell, and Fred Cooke	639
BREEDING BIOLOGY OF THE PUERTO RICAN SHARP-SHINNED HAWK (<i>ACCIPITER STRIATUS VENATOR</i>). Carlos A. Delannoy and Alexander Cruz	649
ON THE ORIGIN OF DARWIN'S FINCHES. Luis F. Baptista and Pepper W. Trail	663
ADJUSTMENT OF PARENTAL INVESTMENT WITH MATE QUALITY BY MALE YELLOW-HEADED BLACKBIRDS (<i>XANTHOCEPHALUS XANTHOCEPHALUS</i>). David F. Gori	672
MORPHOMETRICS OF FLIGHTLESSNESS IN THE ALCIDAE. Bradley C. Livezey	681
EARLY GROWTH AND DEVELOPMENT OF THE COMMON BARN-OWL'S FACIAL RUFF. Tim Haresign and Andrew Moiseff	699
FIELD METABOLISM OF TREE SWALLOWS DURING THE BREEDING SEASON. Joseph B. Williams	706
SEED HANDLING ABILITY, BILL STRUCTURE, AND THE COST OF SPECIALIZATION FOR CROSSBILLS. Craig W. Benkman	715
PREY DYNAMICS AND THE BREEDING PHENOLOGY OF COMMON TERNS (<i>STERNA HIRUNDO</i>). Carl Safina and Joanna Burger	720
WINTER SURVIVAL AND TERRITORY ACQUISITION IN A NORTHERN POPULATION OF BLACK-CAPPED CHICKADEES. André Desrochers, Susan J. Hannon, and Kelly E. Nordin	727
THE COSTS AND BENEFITS OF EGG DESTRUCTION BY CONSPECIFICS IN COLONIAL CLIFF SWALLOWS. Charles R. Brown and Mary Bomberger Brown	737
AN ANALYSIS OF FUNCTION OF FORMATION FLIGHT OF CANADA GEESE. John P. Badgerow	749
ASSESSING POPULATION TRENDS OF NEW HAMPSHIRE FOREST BIRDS: LOCAL VS. REGIONAL PATTERNS. Richard T. Holmes and Thomas W. Sherry	756
IN MEMORIAM: HANS ALBERT HOCHBAUM. C. Stuart Houston	769
IN MEMORIAM: JOHN DAVIS. Charles G. Sibley and Frank A. Pitelka	770
IN MEMORIAM: SÁLM ALI. S. Dillon Ripley	772
SHORT COMMUNICATIONS	
Museum Collections as a Source of DNA for Studies of Avian Phylogeny. Peter Houde and Michael J. Braun	773
Application of Synaptonemal Complex Techniques for Determination of Diploid Number and Chromosomal Morphology in Birds. David W. Hale, Elizabeth J. Ryder, Philip D. Sudman, and Ira F. Greenbaum	776
Influence of Desert Nesting and Foraging Distance on Growth Rates in Gray Gulls (<i>Larus modestus</i>). Carlos G. Guerra, Lloyd C. Fitzpatrick, and Roberto E. Aguilar	779
Molt of Primaries and Age Determination in Tengmalm's Owl (<i>Aegolius funereus</i>). Birger Hörnfeldt, Bengt-Göran Carlsson, and Åke Nordström	783
Selectivity and Ecological Consequences of Cavity Nesters Using Natural vs. Artificial Nest Sites. Jeffrey D. Brawn	789
Nonparental Attendants in a North-temperate Migrant. Michael Kaspari and Helen O'Leary	792
Sex Ratios of Fladging Golden Eagles. Thomas C. Edwards Jr., Michael W. Collopy, Karen Steenhof, and Michael N. Kochert	793
Soil Analyses and $^{13}\text{C}/^{12}\text{C}$ Ratios Identify Sites of Deserted Rockhopper Penguin Colonies. P. J. Moors, T. W. Speir, and G. L. Lyon	796
Food Supplement Effects on Breeding Time and Harem Size in the Red-winged Blackbird (<i>Agelaius phoeniceus</i>). Peter H. Wimmerger	799
EDITORIAL: Letter of Transmittal. Alan H. Brush	803
COMMENTARIES	
Genetic Distance and Hybridization of Black Ducks and Mallards: A Morph of a Different Color? G. R. Hepp, J. M. Novak, K. T. Scribner, and P. W. Stangel	804
Response to Hepp et al. C. Davison Ankney and Darrel G. Dennis	807
Are Weekend Data Suspect? Robert P. Yunk	808
Response to R. P. Yunk. D. James Mountjoy and Raleigh J. Robertson	808
BOOK REVIEWS. Edited by M. Ross Lein	809
100 YEARS AGO IN THE AUK	662
NOTES AND NEWS	648
ERRATUM	748
INDEX TO VOLUME 105. Compiled by K. Elizabeth K. Pacala	829